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TS Furey, N Cristianini, N Duffy, DW Bednarski, ... - ..., 2000 - Oxford Univ Press
... Here a systematic and principled method is introduced that analyses **microarray** expression data from thousands of genes tested in multiple tissue ... we use $K(x_i, x_j) = (x_i \cdot x_j + 1)$. In the presence of **noise**, the standard maximum margin **algorithm** described above ...
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... The stochastic nature of both population initialization and the **genetic** operators used during training can make ... To allow for **noise** in the data the tree can be pruned to allow for misclassifications in ... Decision tree learning **algorithms** are biased to select the simplest of these ...
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MPS Brown, WN Grunly, D Lin, N ... - Proceedings of the ..., 2000 - National Acad Sciences
... the different perspective provided by the expression data, which represents the **genetic** response of ... Third, genes for which the **microarray** data is corrupt may not be correctly classified. ... Occasionally, the **microarrays** contain bad probes or are damaged, and some locations in the ...
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MR Segal, KD Gehlquist, BR ... - Journal of Computational ..., 2003 - liebertonline.com
... Much has been written on the potential use of DNA **microarrays** in studying the ... Furthermore, results will be sensitive to the clustering **algorithm** and distance measure used, as we ... With the covariate dimensions encountered in **microarray** studies, it becomes evident that very few ...
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... same way that backpropagation evaluates VED (see Bishop 1992 for a complete **algorithm** and the ... is the relationship between the evidence and the generalization error (or its close relative, **cross-validation**)? ... be devoted to the test set to get an acceptable signal-to-noise ratio ...
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... Smoothing was done to (i) denoise and thus enhance the signal-to-noise ratio and (ii) enable a multiple-test correction via the ... **Cross-validation** (22) treats $n - 1$ of n observations as a training set. ... The **genetic algorithm** was first described by John Holland in the mid-1970s (17). ...
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[PDF] Selecting informative genes with parallel genetic algorithms in tissue classification

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J Liu, H Iba, M Ishizuka - GENOME INFORMATICS SERIES, 2001 - Citeseer
... High-density oligonucleotide **microarrays** containing 7129 probes for 6817 human genes were used. ... The colon data can be found at the web site <http://microarray.princeton.edu/oncology>. ... [20]
Yang, J. and Honavar, V., Feature subset selection using a **genetic algorithm**, 1997. ...
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CH Yeang, S Ramaswamy, P Tamayo, S ... - ..., 2001 - Oxford Univ Press
... In general, pathologists utilize a variety of microscopic, **genetic**, and immunologic techniques ... This profile does not happen since the reading of **microarray** experiments is ... sample was hybridized overnight to Affymetrix high-density oligonucleotide **microarrays** containing probes ...
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DK Slonim - nature genetics, 2002 - nature.com
... DeRisi, JL, Iyer, VR & Brown, PO Exploring the metabolic and **genetic** control of ... | Article | PubMed | ISI | ChemPort |; Churchill, GA Fundamentals of experimental design for cDNA **microarrays**. ... ISI | ChemPort |; Yang, YH & Speed, T. Design issues for cDNA **microarray** experiments ...
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A Ben-Dor, I Brutin, N Friedman, I ... - Journal of ..., 2000 - liebertonline.com
... Many of these clones are not relevant to the distinction between cancer and tumor and introduce **noise** in the classification process ... 1. The generic AdaBoost **algorithm**. ... Gene expression levels in these 72 samples were measured using high density oligonucleotide **microarrays**. ...
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